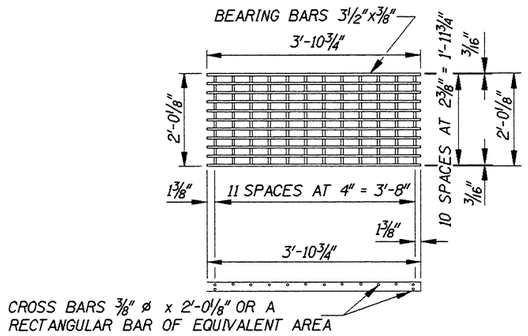
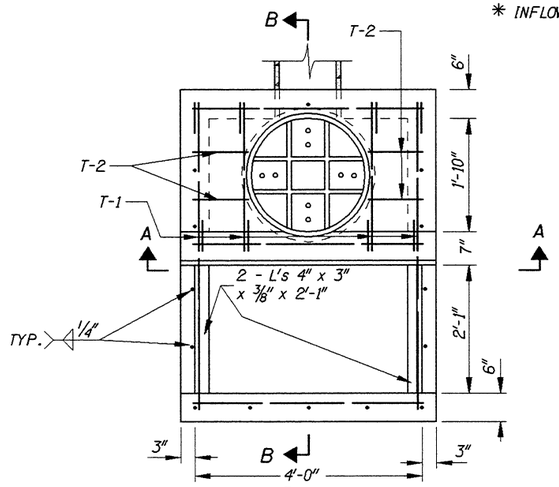


WEIGHT: APPROXIMATELY 203 LBS

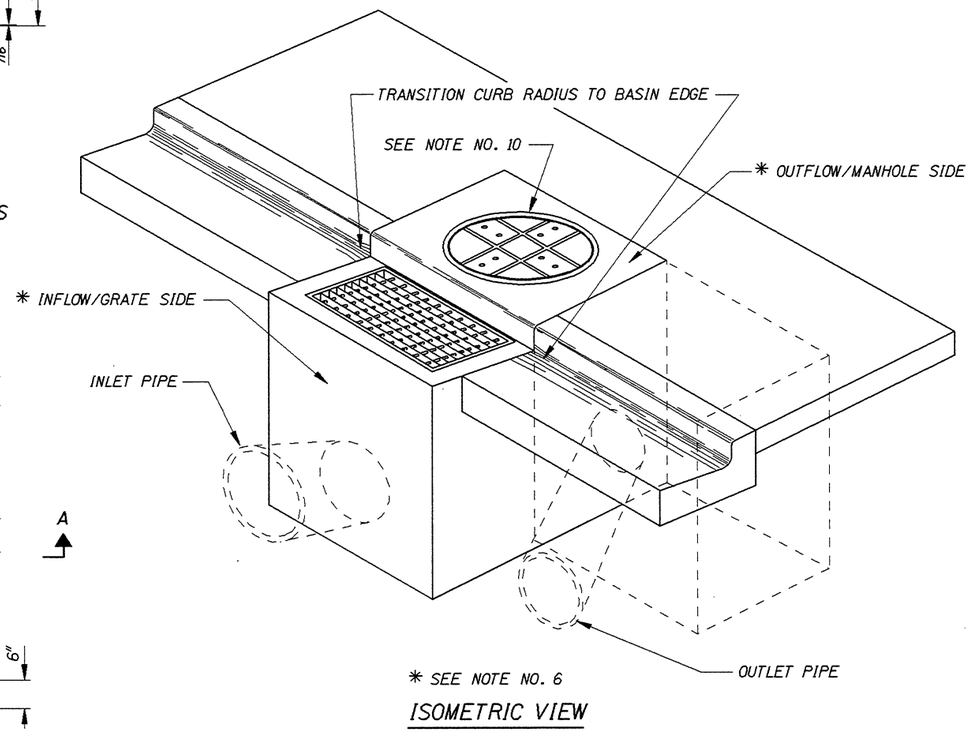
STEEL GRATE

(NOT TO SCALE)



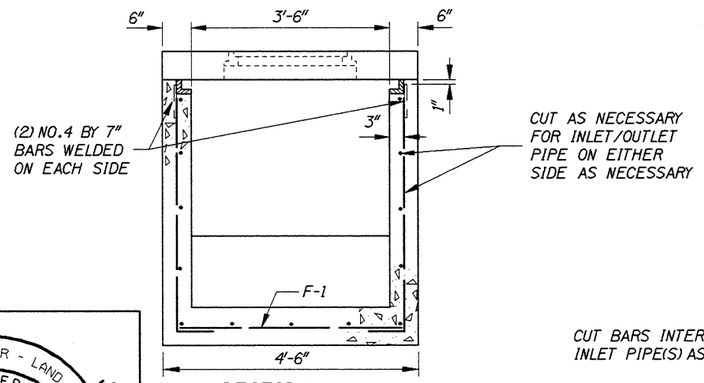
PLAN

(SCALE ¾" = 1')



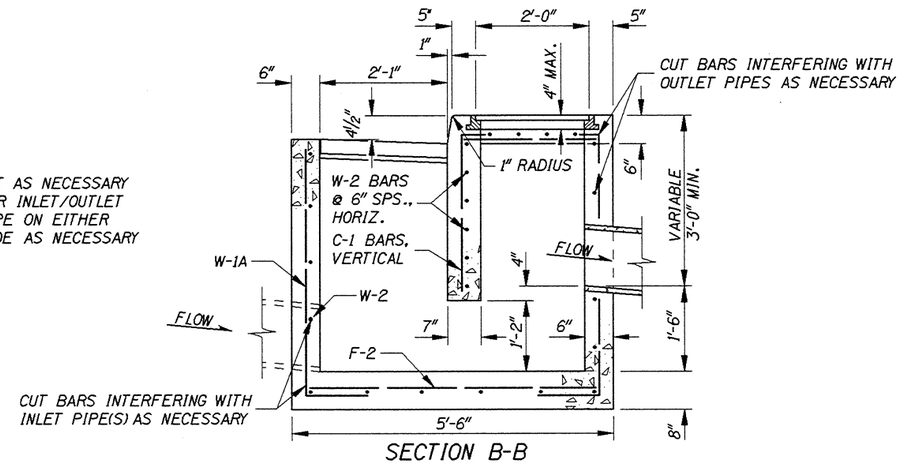
* SEE NOTE NO. 6

ISOMETRIC VIEW



SECTION A-A

(SCALE ¾" = 1')



SECTION B-B

(SCALE ¾" = 1')

METAL REINFORCEMENT TABLE

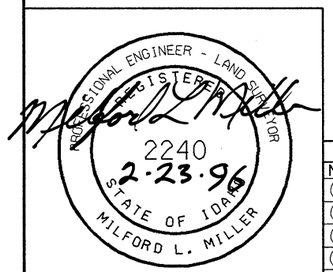
MARK	LOCATION * a	BAR SIZE	NO. BARS	LENGTH	TOTAL	SKETCH
F-1	FLOOR	#4	6	4'-2"	25.00'	4'-2" / 6 BARS / SPS. @ 12"
F-2	OPPOSITE OF F-1 IN FLOOR	#4	5	5'-2"	25.83'	5'-2" / 5 BARS / SPS. @ 11½"
W-1A	VERTICAL IN FRONT & SIDE WALLS, SINGLE BAR IN BACK WALL	#4	14	5'-2"	72.33'	4'-2" MIN. / 1'-0"; SIDE WALLS (4 EA. WALL) SPS. @ 12¾"; FRONT WALL (5 BARS), SPS. @ 12"; ONE IN BACK WALL SPACES WITH W-1B
W-1B	VERTICAL IN BACK WALL	#4	4	6'-2"	24.67'	4'-8" MIN.; 0'-6" / 1'-0"; OVERLAPING TIE WITH T-1, BACK WALL (4 BARS) SPS. @ 12" (W/SINGLE W-1A)
W-2	HORIZONTAL IN FRONT, BACK, & CENTER WALLS	#4	15 MIN.	4'-2"	62.50'	4'-2"; FRONT WALL (MIN. 4 BARS), SPACE UP FROM F-1, SPS. @ 12½"; CENTER WALL (MIN. 6 BARS), SPS. @ 6"; BACK WALL (MIN. 5 BARS), SPACE UP FROM F-1, SPS. @ 10¾"
W-3	HORIZONTAL IN SIDE WALLS	#4	13 MIN.	5'-2"	67.17'	5'-2"; SIDE WALLS (MIN. 4 BARS EA. WALL), SPACE UP FROM F-2, SPS. @ 12"
C-1	VERTICAL IN CENTER WALL	#5	4	3'-5"	13.67'	0'-6" / 2'-11" MIN.; OVERLAPPING TIE WITH T-1
T-1	TOP	#5	4	2'-7"	10.33'	2'-7"; OVERLAPING TIE WITH W-1B & C-1
T-2	OPPOSITE OF T-1 IN TOP	#5	4	1'-0"	4.00'	1'-0"; CROSS TIE TO TOP T-1 BARS

TOTAL METAL REINFORCEMENT LENGTH & WEIGHT SUMMARY

BAR SIZE	LINEAR FEET	BAR WT./FT.	WEIGHT
#4	277.5'	0.668 LBS.	185.4 LBS.
#5	28.0'	1.043 LBS.	29.2 LBS.
TOTAL WEIGHT (MINIMUM)			214.6 LBS.

NOTES

1. SEDIMENT CONTROL CATCH BASINS CAN BE EITHER PRECAST OR CAST-IN-PLACE. PRECAST BASINS SHALL MEET THE REQUIREMENTS OF ASTM C 478. PRIOR APPROVAL OF SHOP DRAWINGS IS REQUIRED FOR USE OF PRECAST BASINS.
2. CAST-IN-PLACE CATCH BASINS SHALL CONFORM TO SECTION 609 - MINOR STRUCTURES OF THE CURRENT ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
3. ALL REINFORCEMENT SHALL HAVE A MINIMUM CONCRETE COVER OF 2" AND/OR 3" MINIMUM COVER IF CAST AGAINST EARTH.
4. THE INVERT OF ANY EFFLUENT PIPE SHALL BE A MINIMUM OF 4" ABOVE THE BOTTOM OF THE SEDIMENT CONTROL WALL.
5. THE FINISHED TOP OF CONCRETE SHALL BE EVEN WITH THE GRATE SURFACE.
6. INFLUENT PIPE(S) SHALL ENTER THE CATCH BASIN ON THE GRATE SIDE AND EFFLUENT PIPE(S) SHALL LEAVE ON THE MANHOLE SIDE OF THE CATCH BASIN. AN ADDITIONAL STRUCTURE APPENDAGE MUST BE CONSTRUCTED WHEN EFFLUENT PIPE CROSSES THE ROADWAY AS SHOWN IN THE ISOMETRIC VIEW. THE APPENDAGE STRUCTURE DIMENSIONS SHALL BE COMPATIBLE TO THE OUTFLOW PIPE SIZE AND THE TOP DEPTH SHALL BE 2'-11" TO MATCH THE BACK AND CENTER WALLS.
7. THE METAL FOR THE GRATE SHALL MEET THE REQUIREMENTS OF ASTM A 36. THE METAL GRATE NEED NOT BE PAINTED OR GALVANIZED.
8. WELDING OF THE METAL GRATE SHALL MEET THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY D1.1.
9. ANGLES SHALL BE SET SO THAT EACH BEARING BAR OF PREFABRICATED GRATE SHALL HAVE FULL BEARING ON BOTH ENDS.
10. THE CATCH BASIN MANHOLE FRAME AND COVER SHALL BE A FLUSH MOUNT TYPE WITH A FRAME NO DEEPER THAN 4". THE FLUSH MOUNT MANHOLE IS NOT PERMITTED FOR VEHICULAR TRAFFIC.



REVISIONS												
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
①	2-96	MSM									

CADD FILE NO. p3a_0296.std

DRAWING DATE: JANUARY, 1994

IDAHO TRANSPORTATION DEPARTMENT

BOISE, IDAHO

CHIEF OF HIGHWAY OPERATIONS

CHIEF ENGINEER

STANDARD DRAWING

WATER POLLUTION CONTROL SEDIMENT CONTROL CATCH BASIN

FORM CATALOG NUMBER

STANDARD DRAWING NO. P-3-A

SHEET 1 OF 1